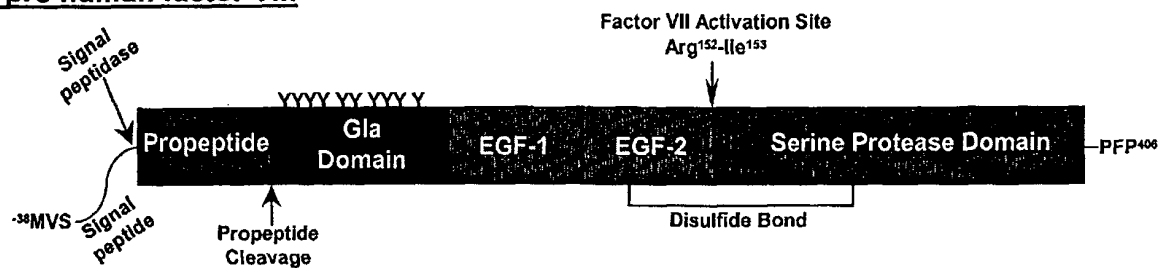
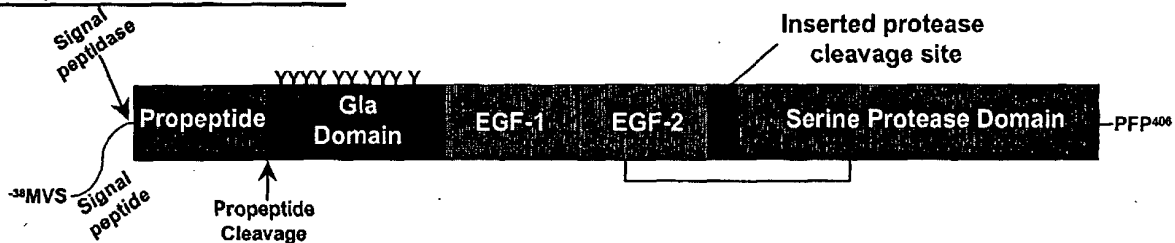


Figure 1: Engineering Factor VII to Factor VIIa

Pre-pro human factor VII:



Engineered human factor VII:



Insert engineered human factor VII into suitable gene delivery vector. Go to figure 2.

Engineered human factor VII delivered to target tissue:

Intracellular processing

Removal of protease cleavage site, signal sequence, and propeptide.

Activated human factor VII (FVIIa):



Released into circulation

Figure 2: Gene Delivery Vector Carrying Engineered Human Factor VII

Engineered human factor VII inserted into suitable gene delivery vector (such as, but not limited to, adeno-associated virus (AAV))



AAV-Gene Delivery Vector (Example):



Delivery of vector carrying engineered factor VII into target tissue



Release of activated factor VII (FVIIa) into the circulation

